5

15

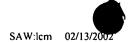
- 1. A method for producing lightweight concrete composition wherein foamed plastic balls or particles obtained by grinding foamed plastic waste material are mixed with-eement, characterized by that the plastic particles are mixed with water, soluble glass and polyvinyl acetate, and to the mixture, cement is batched in two stages.
- The method as claimed in Claim 1, wherein cement slurry is prepared first in the mixer with the known aggregates, and then the plastic particles are added to this slurry.
- 10 3. The method as claimed in Claim 1, wherein the mixture of cement slurry and the aggregates is poured into a mold and then is pressed to \( a \) 65-70% of \( \) its original volume.
  - 4. The method as claimed in Claim 2, wherein the mixture of cement slurry and the aggregates is poured into a mold and then is pressed to a 65-70% of its original volume.
  - 5. The method as claimed in Claim 1, wherein after drying, the surfaces adjoining the mold walls are cut off and a construction material of homogenous strength is manufactured by sawing, milling and drilling to provide optional forms of the constructed material.
  - 6. The method as claimed in Claim 2, wherein after drying, the surfaces adjoining the mold walls are cut off and a construction material of homogenous strength is manufactured by sawing, milling and drilling to provide optional forms of the constructed material.
- 7. The method as claimed in Claim 3, wherein after drying, the surfaces
  25 adjoining the mold walls are cut off and a construction material of homogenous strength is manufactured by sawing, milling and drilling to

5

15

20

25



- provide optional forms of the constructed material.
- 8. The method as claimed in Claim 1, wherein the increased strength lightweight concrete is sawn into heat insulating panels.
- 9. The method as claimed in Claim 2, wherein the increased strength lightweight concrete is sawn into heat insulating panels.
- 10. The method of Claim 3, wherein the increased strength lightweight concrete is sawn into heat insulating panels.
- 11. The method of Claim 5, wherein the increased strength lightweight concrete is sawn into heat insulating panels.
- 10 12. The method as claimed in Claim 5, wherein cutting and sawing of the construction material is provided by moving an endless coarse steel wire in a longitudinal and transverse direction of the workpiece
  - 13. The method as claimed in Claims 8, wherein cutting and sawing of the construction material is provided by moving an endless coarse steel wire in a longitudinal and transverse direction of the workpiece
  - 14. The method as claimed in Claim 5, wherein the construction material is formed as blocks having holes in them, and the form blocks joined to each other by tongue-and-groove connection, thereafter, the holes within the form blocks are filled with concrete and with this, the form blocks are used as formwork blocks of different performance walls and floors.
  - 15. The method as claimed in Claim 8, wherein the construction material is formed as blocks having holes in them, and the form blocks joined to each other by tongue-and-groove connection, thereafter, the holes within the form blocks are filled with concrete and with this, the form blocks are used as formwork blocks of different performance walls and floors.
  - 16. The method as claimed in Claim 12, wherein the construction material is





formed as blocks having holes in them, and the form blocks joined to each other by tongue-and-groove connection, thereafter, the holes within the form blocks are filled with concrete and with this, the form blocks are used as formwork blocks of different performance walls and floors.

5 17. The method as claimed in Claim 16, wherein before filling with concrete, reinforcing steel rods are inserted into the holes of the form blocks.